

**Mac Jee Tecnologia** is the company specialized in the development and improvement of energetic materials production lines. With exclusive technology, it has the capability of creating highly automated and efficient plants.

## ENERGETIC MATERIALS PRODUCTION PLANTS



**TNT / RDX / COMP B**



**PROPELLANTS**



**Reduction of up to 80% in water consumption\***

\*In comparison to plants without water treatment features



**Waste treatment and reuse**



**Automated resources**



**Production capability defined by the customer**



**Equipaer** is a Brazilian company certified by the Ministry of Defense as a Strategic Defense Company (EED) and specialized in developing products and providing technical support to the Brazilian Air Force. With more than 50 years of know-how in the defense and aviation industry, the company was acquired by **Mac Jee** in 2019.



**Rocket Launchers**



**DIANA - Target Drone**



**Aerial Targets**



[macjee@macjee.com.br](mailto:macjee@macjee.com.br)  
T. +55 12 2012-4100

**Fazenda Santo Antônio**  
Rodovia dos Tamoios  
SP-99 - KM 24 | CEP 12260-000

MACJEE  
TECNOLOGIA



**Defense Industry**







# ABOUT US

**Mac Jee** is one of the main companies of the Industrial Defense Base in Brazil. With global operations, it is headquartered in **São José dos Campos**, with offices in **São Paulo** and **France**.

Established in 2007, **Mac Jee** has more than a decade of expertise and operations in the Defense and Aerospace segments. It has partnerships with the main national and international players, aiming to offer the best solutions in products and services.



**CARVALHO PINTO**  
Administrative Headquarter  
Inert products manufacturing

**TOTAL AREA**  
**50.000m<sup>2</sup>**



**PARAIBUNA**  
Active products manufacturing

**TOTAL AREA**  
**3.500.000m<sup>2</sup>**



ITAR FREE

## AERIAL AMMUNITIONS

Developed and produced by **Mac Jee**, the **BGB** series are the Brazilian version of the MK General-Purpose Bomb.

### Available in versions

81

82

83

84

ANTI BUNKER



### BODIES

Customizable with different types of bodies.

- Cold Forged
- Pre-Fragmented

### FUZES

#### NATO STANDARD

Mechanical and electronic fuzes.

- BMF-94 - M904 TYPE
- BMF-95 - M905 TYPE
- BEF-1205 - ELECTRONIC

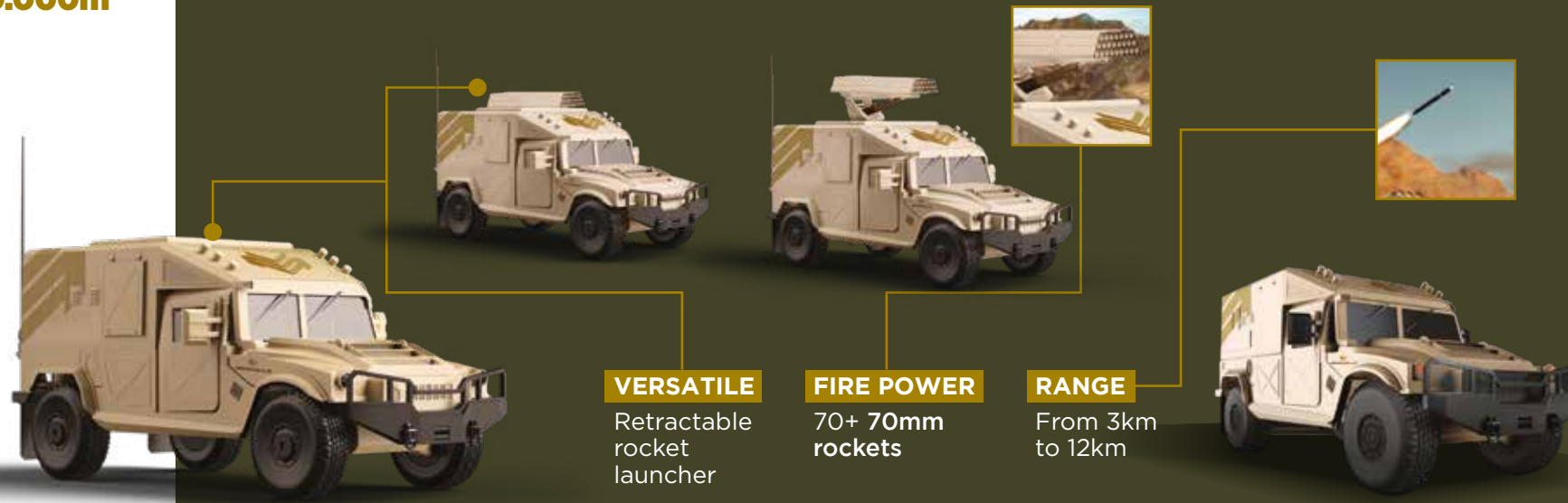
### EXPLOSIVE CHARGES

**BGBs** can be charged with different energetic materials:

- TNT
- Tritonal
- Comp B
- Thermobaric



One of the lightest, compact, versatile, fast, and highly offensive rocket launchers' vehicles on the global market, **Armadillo** was designed and developed for extreme operating conditions.

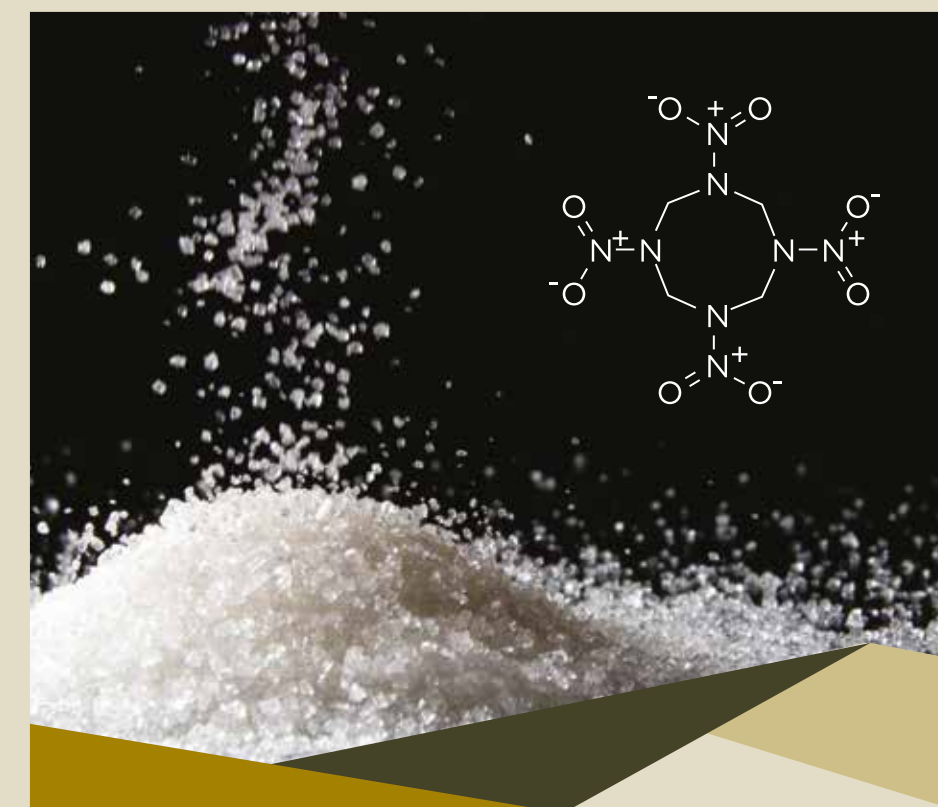


**VERSATILE**  
Retractable rocket launcher

**FIRE POWER**  
70+ 70mm rockets

**RANGE**  
From 3km to 12km

## HMX OCTOGEN



**250 TONS**

**LAUNCHING THE FIRST 100% BRAZILIAN HMX PRODUCTION LINE**, on the Mac Jee site in Paraibuna (250 tons per year)

## OCTOGEN

HMX, also called Octogen, is a powerful energetic material, stable and safe to handle, with a wide variety of civilian and military uses. Available in short lead times, the HMX produced by Mac Jee meets the highest quality standards.

## 155mm AMMUNITION

The .155 ammunition is a projectile for a .155mm howitzer model M107 HE, with different types of fuzes and detonation charges according to the mission to be used.

Consisting of a forged steel body, with a copper forcing strap, TNT explosive charge and a housing for mounting the detonation cap. It has a mass of 41.86 (+/-) 1.04 kg and a mass of TNT of 6.8 (+/-) 0.25 kg.

It is supplied in wooden pallets of 8 units, and each projectile comes with a lifting eye for handling and transport.

It is used in 39 caliber howitzers for launching at 14.6 km (variable distance according to the launch load).



- **Caliber:** 155mm
- **Projectile Weight:** 41,86 Kg
- **Charge:** TNT
- **Velocity(m/s):** (changes by model): 207.3 to 563.9 meters per second.
- **Max Range:** 3900 meters to 14600 meters.
- **Use:** Howitzer, Cannon M1, M1a1, M45.